



CaSR Biomedicine - Agenda for ETN School - Somerville College, Oxford, 12-14th
December 2016

Monday 12th December (ETN school day 1)

- 13.00 Lunch and registration
- 14.00 Welcome and introduction
- 14.15-15.45 Workshop: Ethics in scientific research
(lead: Sabina Baumgartner-Parzer)
- 15.45-16.15 Coffee
- 16.15-17.45 Workshop: Quality management in research
(lead: Andrew Hollo-Tas)
- 18.00-19.00 Dinner at Somerville College

Tuesday 13th December (ETN school day 2)

Course: CaSR and beyond (lead: Rajesh Thakker and Fadil Hannan)

09.00-09.10 Introduction to the course (Rajesh Thakker and Fadil Hannan)

Introduction to the CaSR

- 09.10-9.50 GPCR superfamily, structure and function (Fadil Hannan)
- 09.50-10.30 Overview of GPCR signal transduction (Frank Bruggeman)
- 10.30-11.00 Coffee
- 11.00-11.40 Parathyroid glands as a Ca²⁺ sensor - a brief history (Ed Nemeth)
- 11.40-12.10 CaSR cloning and expression (Daniela Riccardi)
- 12.10-13.00 Lunch

Overview of CaSR signaling and trafficking

- 13.00-13.30 CaSR ligands and signalling (Arthur Conigrave)
- 13.30-14.00 CaSR biosynthesis and anterograde trafficking (Gerda Breitwieser)



14.00-14.30 CaSR endocytosis and retrograde trafficking (Caroline Gorvin)

14.30-15.00 Coffee

Tools for characterizing GPCR function

15.00-15.30 Cellular models (Donald Ward)

15.30-16.00 Mouse models (Sarah Howles)

16.00-16.30 Structural biology – Crystallography and homology models (Luisa Pugliese)

16.30-17.00 Summary and discussions (Fadil Hannan)

18.00-19.00 Dinner at Somerville College

Wednesday 14th December (ETN school day 3)

Workshop: From diagnosis to therapy (lead: Fadil Hannan)

Mineral metabolism

09.00-09.30 Overview of mineral metabolism (Fadil Hannan)

09.30-10.00 Genetic disorders of bone and mineral metabolism (Fadil Hannan)

10.00-10.30 Coffee

CaSR and disorders of Ca²⁺ homeostasis

10.30-11.00 Familial hypocalciuric hypercalcaemia (Rajesh Thakker)

11.00-11.30 Autosomal dominant hypocalcaemia (Fadil Hannan)

CaSR and non-calcitropic disorders

11.30-12.10 Cancer (Enikö Kallay)

12.10-12.50 CNS tumours (Carmen de Torres)

12.50-13.50 Lunch

13.50-14.30 Asthma (Daniela Riccardi)

14.30-15.10 Alzheimer's disease (Andras Dinnyes)

15.10-15.30 Coffee